

## Exploring the Cell

### Teacher notes

- This lesson may be used as an introduction to cell organelles

Know: Cells have structures called organelles which function to carry out all life functions.

Show: Name the cell organelles and explain their functions.

Vsc: 7.3.B.1.d

## Exploring the Cell

- A cell is the smallest unit of life that can carry out all of life's functions
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- Cells have parts called organelles that function similar to organs in higher life forms.
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- Each organelle has a particular job to do to keep the cell healthy and living.

Let's look at some organelles and learn about their functions



## Cell Organelles Notes

1. Nucleus - Controls all of the cell's activities
2. Mitochondria - Produces energy for the cell
3. Cell membrane - Forms a boundary that separates the cell from its environment.
4. Cell wall - In plants and some other organisms, a rigid nonliving material that protects and supports the cell.
5. Endoplasmic reticulum - passageways that carry proteins and other materials from one part of the cell to another.
6. Ribosomes - factories that produce proteins.
7. Golgi bodies - receive, package and distribute materials to different parts of the cell.
8. Lysosomes - break down certain materials in the cell.
9. Vacuoles - the storage areas of the cell.
10. Chloroplasts - in plants and some other organisms capture energy from sunlight and use it to make food for the plant cell.

Let's check to see how much we know.

Edit

Check

Reset

Solve

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Word	Description
<input type="text"/>	Rigid membrane found only in plants
<input type="text"/>	rRNA
<input type="text"/>	The brains of the cell.
<input type="text"/>	Semi-permeable phospholipid bilayer
<input type="text"/>	Microtubular framework for the cell
<input type="text"/>	Cellular ooze
<input type="text"/>	Packages and processing within the cell
<input type="text"/>	Intercellular highway

Ribosome

Cytoplasm

Cell Membrane

Endoplasmic ...

Golgi Apparatus ...

Cytoskeleton

Cell Wall

Nucleus